GRANTEE AND INSTITUTION	PROJECT TITLE
CHARLES B. McCANTS, PH.D., *Associate Professor of Soils*, School of Agriculture, North Carolina State College, Raleigh.	Arsenic content of soils and absorption by the tobacco plant (C—P)
HENRY C. McGILL, JR., M.D., *Acting Head, Department of Pathology*, Louisiana State University School of Medicine New Orleans. (see Holman and Strong)	The effects of environmental factors on development of atherosclerosis as revealed by autopsy of accident victims
KELLY T. McKEE, M.D., *Associate Professor of Medicine*, Medical College of South Carolina, Charleston.	Study of lung function in smokers and nonsmokers (C—P)
HERBERT McKENNIS, JR., *P .D., Professor of Pharmacology*, Medical College of Virginia, Richmond (see Larson)	Enzymatic transformations of nicotine and related compounds (P)
VICTOR A. McKUSICK, M.D., *Professor of Medicine*, Johns Hopkins University School of Medicine, Baltimore, Md.	A combined genetic, physiologic, clinical and epidemiologic study of Buerger's disease (C—P) A study of Buerger's disease among the Jewish ethnic groups in Israel
JAMES G. MILLER, M.D., PH.D., *Professor of Psychiatry and Psychology, and Director, Mental Health Research Institute*, University of Michigan, Ann Arbor.	The behavioral effects of smoking under stress (C)
HUGH MONTGOMERY, M.D., *Associate Professor of Medicine*, University of Pennsylvania Medical School, Philadelphia.	Influence of tobacco smoking on the blood flow of skin and of muscles of extremities in sympathectomized and unsympathectomized subjects (C) Influence of nicotine (i.v.) and tobacco smoking on blood flow in human skin and skeletal muscle (C—P)
P. O'B. MONTGOMERY, JR., M.D., *Professor of Pathology*, University of Texas, Southwestern Medical School, Dallas.	Investigation of the role of the nucleolus in the normal and the malignant cell (P)
GEORGE E. MOORE, PH.D., M.D., *Director*, Roswell Park Memorial Institute, Buffalo, N. Y. (see Bock)	An investigation of the physiological effects of direct inhalation of tobacco smoke by laboratory animals and the study of the biological response of laboratory animals to continuous ingestion of diet-tobacco product mixtures (C)
HURLEY LEE MOTLEY, M.D., *Professor of Medicine and Director, Cardio-Respiratory Laboratory*, University of Southern California School of Medicine, Los Angeles.	A study of the effects of smoking on pulmonary function (C—P)

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GRANTEE AND INSTITUTION	PROJECT TITLE
WILLIAM S. MURRAY, Sc.D., *Research Associate*, Roscoe B. Jackson Memorial Laboratory, Bar Harbor, Me.	The production of genetically controlled animals and tumors for use in experimental research on tobacco in relation to health (C) Studies of the mammary tumor-promoting qualities of a virus-like principle, under varying hormonal and aging conditions (C)
DONALD M. PACE, PH.D., *Professor of Physiology and Director, Institute for Cellular Research*, University of Nebraska, Lincoln.	Fellowship for training in tissue culture techniques (C) Study of the effects of tobacco smoke constituents on various strains of tissue cells cultivated *in vitro* (P)
EDWARD W. PELIKAN, M.D., *Chairman and Professor of Pharmacology and Experimental Therapeutics*, Boston University School of Medicine, Boston.	A study of structure-activity relationships among drugs which affect nicotine-sensitive physiological mechanisms (P)
OTAKAR J. POLLAK, M.D., PH.D., *Executive Director*, Dover Medical Research Center, Inc., Dover, Del.	Possible effect of tobacco derivatives on arterial and myocardial tissue cultures (C—P)
MORRIS POLLARD, PH.D., *Director, Lobund Laboratory*, University of Notre Dame, Notre Dame, Ind.	Chemical and viral carcinogenesis in the axenic ("germfree") animal
C. M. POMERAT, PH.D., *Director of Biological Research*, Pasadena Foundation for Medical Research, Pasadena, Cal.	Fellowships for studying the culture of human lung tissue and the effects of known and possible carcinogenic agents upon such tissue (C—P)
H. R. PRATT-THOMAS, M.D., *Dean and Professor of Pathology*, Medical College of South Carolina, Charleston.	Pathologic—anatomic study of cellular changes in human bronchi (C—P) Application of a new bioassay technique in examination of cigarette smoke condensates for possible carcinogens (C—P) Carcinogenesis in the laboratory animal: a comparison of species response to standardized sites of application.
MARTIN S. PROTZEL, B.S., D.D.S., *Chief, Department of Oral Pathology*, Martland Medical Center, Newark, N. J.	A comparative study of the effects of 3-methylcholanthrene and cigarette smoke condensate applied to the oral tissues of Swiss mice (ICR) conditioned with alcohol and/or carbon tetrachloride
WALTER REDISCH, M.D., New York University Research Service, Goldwater Memorial Hospital, Welfare Island, New York. (see Sulzberger)	Vascular responses to tobacco smoking in patients with vascular disease
HOBART A. REIMANN, M.D., *Professor of Medicine*, Hahnemann Medical College and Hospital, Philadelphia.	The possible effect of tobacco or nicotine in periodic disorders, a newly-recognized syndrome (C—P)

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GRANTEE AND INSTITUTION	PROJECT TITLE
VICTOR RICHARDS, M.D., *Professor of Surgery and Executive Head, Department of Surgery,* Stanford University School of Medicine, San Francisco. (see Heizer)	A comparative study of the effects of whole and fractional extracts of cigarette smoke and those of known carcinogens on (1) the cytology and nuclear DNA content of epidermis in various strains of mice and/or (2) the cytology and nuclear DNA content of lung and epithelium of the bronchial tree of mice and hamsters (C)
R. H. RIGDON, M.D., *Professor of Pathology and Director, Laboratory of Experimental Pathology,* University of Texas Medical Branch, Galveston.	Effects of tobacco smoke condensate on the respiratory tract and other tissues of the duck (C—P)
SYDNEY C. RITTENBERG, PH.D., *Professor of Bacteriology,* University of Southern California, Los Angeles.	The bacterial degradation of nicotine and related compounds. The objective of the project is the elucidation of the intermediary metabolism of nicotine oxidation (C—P)
BENSON B. ROE, M.D., *Associate Professor of Surgery, Department of Surgery,* University of California School of Medicine, San Francisco.	Study of the action of negatively charged ions on tracheobronchial ciliary action in the human patient (C)
BENJAMIN A. RUBIN, PH.D., *Assistant Professor of Public Health and Preventive Medicine,* Baylor University College of Medicine, Houston, Texas. (now Manager, Biological Products Development, Wyeth Laboratories, Philadelphia)	An evalution of the phenomenon of tumor growth enhancement as an assay for carcinogens among the polycyclic hydrocarbons and related compounds (C)
HENRY I. RUSSEK, M.D., *Consultant in Cardiovascular Disease,* U. S. Public Health Service Hospital, and *President,* The Russek Foundation, Inc., Staten Island, N. Y.	Emotional stress (occupational), tobacco consumption and coronary heart disease
WILLIAM O. RUSSELL, M.D., *Pathologist-in-chief,* M.D. Anderson Hospital and Tumor Institute, University of Texas Medical Center, Houston.	Pathologic—anatomic study of cellular changes in human bronchi (C)
PETER F. SALISBURY, M.D., *Head, Intensive Treatment Center,* Saint Joseph Hospital, Burbank, Cal.	Influence of nicotine and catecholamines upon coronary vasomotor tonus in normal and atherosclerotic dogs (P)
PAUL D. SALTMAN, PH.D., *Assistant Professor of Biochemistry,* University of Southern California School of Medicine, Los Angeles.	The enzymatic mechanism for the dark fixation of CO_2 by tobacco (C—P) Some aspects of amino acid metabolism in tobacco leaves (C—P)
ALVIN R. SCHMIDT, PH.D., *Director of Counseling,* Tufts University, Medford, Mass.	Study of attitudes toward, as well as extent, type and history of, tobacco smoking in a young college population. Study of some of the relationships of smoking and nonsmoking to family history, type of secondary schooling, academic interests, academic achievement, and, social relationships characteristics (C)

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GRANTEE AND INSTITUTION	PROJECT TITLE
ISAAC SCHOUR, D.D.S., PH.D., D.SC., *Professor of Histology and Embryology and Dean*, University of Illinois College of Dentistry, Chicago.	Histologic changes in the oral, pharyngeal and nasal tissues of experimental animals subjected to tobacco smoke (C—P)
MAURICE S. SEGAL, M.D., *Clinical Professor of Medicine*, Tufts University School of Medicine, Boston, Mass.; *Director, Department of Inhalation Therapy*, Boston City Hospital.	Effects of cigarette smoking on lung function in normal subjects and patients with certain respiratory disease conditions (C—P) Relationship of cigarette smoking to chronic (obstructive) pulmonary emphysema (C)
CARL C. SELTZER, PH.D., *Research Fellow in Physical Anthropology*, Harvard University, Cambridge, Mass, and Department of Nutrition, Harvard School of Public Health, Boston.	Morphology and smoking in college graduates: a fifteen-year follow-up study (P) Harvard-Johns Hopkins study of body form as related to smoking, and the precursors of hypertension and coronary artery disease.
CHARLES E. SHERWOOD, M.D., *Assistant Professor of Radiology*, University of Rochester School of Medicine and Dentistry, Rochester, N. Y.	Investigation into the natural history of carcinoma of the lung with particular reference to the radiographic appearance of such processes, the earliest manifestation of cancer on chest X-ray photographs and the tabulation of the relationship of smoking habits and occupation with the incidence of lung cancer (C—P)
DAVID L. SIMON, M.D., *Instructor in Medicine and Fellow in Cardiovascular Research*, University of Cincinnati College of Medicine and Cardiac Laboratory, Cincinnati General Hospital.	The effects of chewing tobacco on the cardiovascular system of man (C—P) The effects of pipe smoking and cigar smoking on the cardiovascular system of man (C—P)
LOUIS A. SOLOFF, M.D., *Professor of Clinical Medicine* and *Chief, Division of Cardiology*, Temple University Medical Center, Philadelphia.	Study of effect of tobacco smoking on surfactant and on specific fatty acids
ERNEST SONDHEIMER, PH.D., *Associate Professor of Biochemistry*, State University College of Forestry at Syracuse University, Syracuse, N. Y.	The purification and structure determination of the chlorogenic acid isomers
T. M. SONNEBORN, PH.D., *Distinguished Service Professor of Zoology*, Indiana University, Bloomington.	Checking and extending the Stephano *Paramecium* test for carcinogenicity (C)
SAM SOROF, PH.D., *Research Associate*, The Institute for Cancer Research and Lankenau Hospital Research Institute, Philadelphia.	Chemical and physical studies of the tissue proteins involved in chemical carcinogenesis (C—P)
FREDERICK J. STARE, PH.D., *Professor of Nutrition*, Harvard School of Public Health, Boston.	Experimental studies of cancer utilizing a new technique to see if various 'tars' extracted from tobacco may incite the formation of lung tumors (C)

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GRANTEE AND INSTITUTION	PROJECT TITLE
C. HAROLD STEFFEE, M.D., *Director of Laboratories,* Methodist Hospital, Memphis, Tenn.	Studies of carcinogenesis in mice
JACK P. STRONG, M.D., *Associate Professor of Pathology,* Louisiana State University School of Medicine, New Orleans. (see Holman and McGill)	The effects of environmental factors on development of atherosclerosis as revealed by autopsy of accident victims
MARION B. SULZBERGER, M.D., *Professor and Chairman, Department of Dermatology and Syphilology,* New York University-Bellevue Medical Center, New York. (retired, see Redisch)	Investigation of the effects of tobacco on the human vascular system, based on the fact that certain tobacco effects are due to allergic susceptibility of specific individuals rather than to obligatorily toxic products in tobacco smoke, and that patients with occlusive vascular diseases respond differently than healthy smokers (P)
RENATO TAGIURI, PH.D., *Associate Professor of Psychology, Graduate School of Business Administration,* Harvard University, Boston.	Critical review of literature on psychology of smoking
CAROLINE BEDELL THOMAS, M.D., *Associate Professor of Medicine,* Johns Hopkins University School of Medicine, Baltimore, Md.	The significance of different individual patterns of circulatory response to cigagrette smoking (C—P) Studies of genetic differences between smokers and nonsmokers (C—P) Studies of psychological differences between smokers and nonsmokers as shown by comparison of figure drawings (C—P)
TISSUE CULTURE ASSOCIATION	To assist in establishing of summer training course in tissue culture techniques at University of Colorado Medical School, Denver, Colo. (C)
JAMES E. P. TOMAN, PH.D., *Associate Professor of Physiology and Pharmacology,* Chicago Medical School.	Mechanisms of the psychotropic effects of nicotine
JANET TRAVELL, M.D., *Associate Professor of Clinical Pharmacology,* Cornell University Medical College, New York.	Effects of nicotine in the rabbit with experimental coronary atherosclerosis (C—P)
E. D. WARNER, M.D., *Professor of Pathology,* State University of Iowa College of Medicine, Iowa City.	Pathologic—anatomic study of cellular changes in human bronchi (C—P) Correlation of bronchial epithelial changes with comparable changes in other organs—a pathologic-anatomic study (C—P)
SHIELDS WARREN, M.D., *Director of Laboratories, Cancer Research Institute,* New England Deaconess Hospital, Boston.	The pattern of metastasis of carcinoma of the lung in man (C) Histopathology of human lung cancer

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GRANTEE AND INSTITUTION	PROJECT TITLE
RICHARD L. WECHSLER, M.D., *Clinical Physiologist,* Montefiore Hospital Institute of Research, Pittsburgh, Pa.	Effect of cigarette smoking on cerebral blood flow, cerebral metabolism, blood gases, blood pH, arterial pulse pressure curves, electrocardiograms, and electroencephalograms (C)
RUSSELL W. WELLER, M.D., *Pathologist,* Memorial Hospital of Chester County, West Chester, Pa.; *Associate Professor of Pathology,* Hahnemann Medical College, Philadelphia.	Pathologic—anatomic study of cellular changes in human bronchi (C) A selected, extended and detailed study of human bronchial mucosa
SIMON H. WENDER, PH.D., *Research Professor of Chemistry,* University of Oklahoma, Norman.	A qualitative and quantitative study of the individual polyphenol content of cigarette tobacco and the smoke and 'tars' resulting from cigarette smoking and also study of the fate of these compounds in the animal respiratory system (C—P) The identification of individual polyphenolic compounds present in the smoke from cigarettes and the preparation, where feasible, of these compounds for studies on their metabolism and possible effect on human health.
DUANE G. WENZEL, PH.D., *Professor of Pharmacology,* School of Pharmacy, University of Kansas, Lawrence.	The determination of the chronic effects of orally administered nicotine on serum cholesterol and phospholipids; the electrocardiographic response to ergonovine; and the vascular pathology of cholesterol-fed rabbits (C—P) A study of central actions of nicotine
FREDERICK E. WHISKIN, M.D., C.M., *Director, Division of Health and Personality Equilibrium,* The Age Center of New England, Inc., Boston. (see Dibner)	Pilot study of smoking habits of Age Center members (C—P)
ROGER J. WILLIAMS, PH.D., *Professor of Chemistry and Director, Clayton Foundation Biochemical Institute,* The University of Texas, Austin.	An investigation of biochemical factors associated with susceptibility to lung cancer
J. EDWIN WOOD, M.D., *Professor of Medicine,* Medical College of Georgia, Augusta.	The effect of prolonged inhalation of tobacco smoke and of prolonged abstinence from the use of tobacco on the peripheral vascular response to acute inhalation of tobacco smoke in man (C—P)
SUMNER WOOD, JR., M.D., *Assistant Professor of Pathology, Department of Pathology,* Johns Hopkins University, Baltimore, Md.	Evaluation of etiologic factors, such as occupational hazards and habits, anpathologic peculiarities in the long-term survival of patients following resection for bronchogenic carcinoma
JOHN P. WYATT, M.D., *Professor of Pathology,* St. Louis University School of Medicine, St. Louis, Mo.	An investigation into the nature of the pigmentary lesions in centrilobular emphysema (C)

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